2023mar29

Monday, February 27, 2023 12:58

$$\|r_i(s) - r_j(g)\| = \sqrt{(x_i^s - x_j^g)^2 + (y_i^s - y_j^g)^2 + (-)^2}$$

$$h(s) = \sum_{i=1}^{n} \min_{j=1} \|r_i(s) - r_j(g)\|$$

(1) Each brick needs to go to some j:

$$d(s,g) = \sum_{i=1}^{n} \|r_i(s) - r_{j(i)}(g)\|$$

$j(i)$ = position to which brick needs to go

(2)

$$h(s) = \sum_{i=1}^{n} \min_{j=1} \|r_i(s) - r_j(g)\|$$

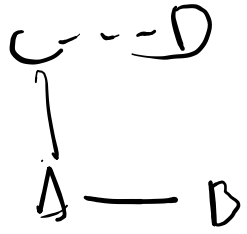
$$\leq \sum_{i=1}^{n} \|r_i(s) - r_{j(i)}(g)\|$$

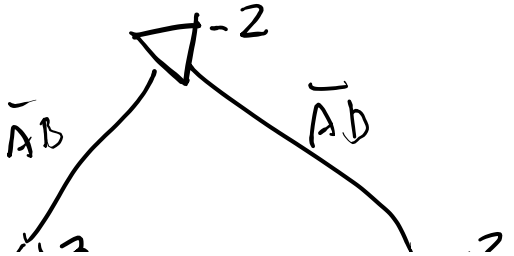
FOR ANY MAPPING $j(i)$

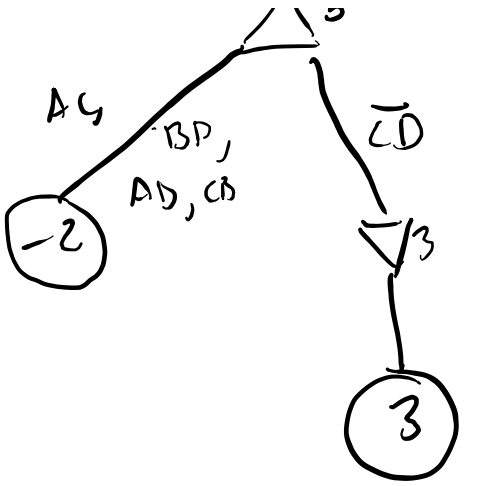
$$\min \|r_i(s) - r_j(g)\| \leq \|r_i(s) - r_{j(i)}(g)\|$$

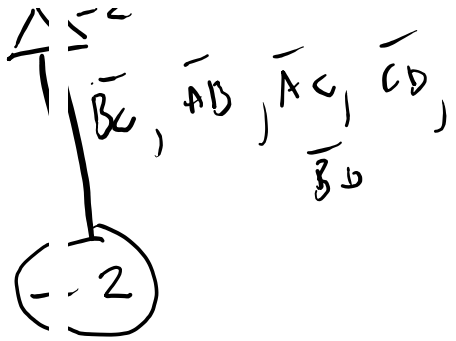
$h(s) \leq d(s, \text{GOAL}) \iff$ AD MISSILE

(Q2)









MINIMAX: -2

SEQ: $\bar{A}\bar{D}$, $\bar{B}\bar{C}$